

**SEP 13 2001**

**Marconi Medical Systems Inc.  
510(k) Summary**

**Mx8000 IDT CT Scanner**

*K012009*

**1. Submitter**

Marconi Medical Systems, Inc.  
595 Miner Road  
Cleveland, OH 44143  
(440) 483-3000

**Contact:**

Robert L. Turocy  
Marconi Medical Systems  
595 Miner Road  
Cleveland, OH 44143  
Telephone: 440 483 3528  
FAX: 440 483 1116

**Date of Summary:** June 19, 2001

**2. Device Name and Classification**

**Device Name:** Mx8000 IDT CT Scanner

**Classification Name:** Computed Tomography X-Ray System

The FDA has classified the Computed Tomography X-Ray System as Class II in 21 CFR 892.1750 (Product Code 90JAK)

**3. Device Description**

The Mx8000 IDT is a Whole Body Computed Tomography X-Ray System featuring a continuously rotating X-ray tube and detectors gantry and multi-slice capability of up to 16 slices simultaneously. The acquired x-ray transmission data is reconstructed by computer into cross-sectional images of the body from the same axial plane taken at different angles. This device also includes signal analysis and display equipment, patient and equipment supports, components and accessories.

**4. Intended Use Of The Device**

The Mx8000 IDT is a Whole Body Computed Tomography X-Ray System intended to produce cross-sectional images of the body by computer reconstruction of x-ray transmission data from the same axial plane taken at different angles.

## **5. Comparison to Predicate Devices**

In the opinion of Marconi Medical Systems Inc., the Mx8000 IDT CT scanner is of comparable type and substantially equivalent to the legally marketed devices currently in commercial distribution, namely:

- Mx8000 (initially identified as Volumax), K982060
- Mx8000 v5.0, K010817

## **6. Safety and Effectiveness Considerations**

The safety of the device is assured by adherence to GMP practices and to International Standards. Potential hazards are identified in a hazard analysis and controlled in the following manner:

**Software** safety is assured by the company procedures that conform to accepted practices. Quality assurance procedures were adhered to, and test results demonstrate that the option specifications and functional requirements were met.

**Electrical and Mechanical** safety is assured by adherence to IEC 60601-1 standards.

**Radiation** safety is assured by compliance with 21 CFR, Subchapter J performance standards.

## **7. Substantial Equivalency Statement**

Based on the above considerations, it is Marconi's opinion that the Mx8000 IDT CT scanner is substantially equivalent in safety and effectiveness to the predicate devices, Mx8000 (initially identified as Volumax), K982060 and Mx8000 v5.0, K010817



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

SEP 13 2001

Mr. Robert L. Turocy  
Regulatory Affairs & Quality Control  
Marconi Medical Systems, Inc.  
595 Miner Road  
HIGHLAND HEIGHTS OH 44143

Re: K012009  
Trade/Device Name: Mx8000 IDT  
Regulation Number: 21 CFR 892.1750  
Regulation Name: Computed Tomography X-ray System  
Regulatory Class: II  
Product Code: 90 JAK  
Dated: June 19, 2001  
Received: June 27, 2001

Dear Mr. Turocy:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (sections 531-542 of the Act); 21 CFR 1000-1050.

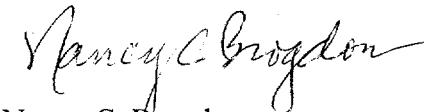
This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at one of the following numbers, based on the regulation number at the top of this letter:

8xx.1xxx	(301) 594-4591
876.2xxx, 3xxx, 4xxx, 5xxx	(301) 594-4616
884.2xxx, 3xxx, 4xxx, 5xxx, 6xxx	(301) 594-4616
892.2xxx, 3xxx, 4xxx, 5xxx	(301) 594-4654
Other	(301) 594-4692

Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/dsma/dsmamain.html>.

Sincerely yours,



Nancy C. Brogdon  
Director, Division of Reproductive,  
Abdominal, and Radiological Devices  
Office of Device Evaluation  
Center for Devices and Radiological Health

Enclosure

510(k) Number (if known): K 012009

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Device Name: Mx8000 IDT

**Indications for Use:** The Mx8000 IDT is a Computed Tomography X-Ray System intended to produce cross-sectional images of the body by computer reconstruction of x-ray transmission data from the same axial plane taken at different angles. This device may include signal analysis and display equipment, patient, and equipment supports, components and accessories.

(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

*Nancy C Brogdon*  
(Division Sign-Off)  
Division of Reproductive, Abdominal,  
and Radiological Devices  
510(k) Number K012009

Prescription Use ✓  
(Per 21 CFR 801.109)

OR

Over-The-Counter Use \_\_\_\_\_

(Optional Format 1-2-96)